

King County CSI Project
North Creek Storage Facility - Construction Cost Estimate
Alternative A - 6 Million Gallon Basin

	Quantity	Units	Unit Cost	Total Cost
Division 2				
Excavation	110,000	CY	\$15	\$1,650,000
Backfill	33,500	CY	\$15	\$502,500
Soil Erosion and Sediment Control	1	LS	\$20,000	\$20,000
Shoring	62,000	SF	\$40	\$2,480,000
Install Dewatering System	1	LS	\$150,000	\$150,000
Dewatering	18	MN	\$25,000	\$450,000
36" RCP	520	LF	\$300	\$156,000
72" Manhole	4	EA	\$8,000	\$32,000
Division 3				
Concrete: Slabs on Grade	13,200	CY	\$300	\$3,960,000
Concrete: Walls	4,000	CY	\$550	\$2,200,000
Concrete: Suspended Slabs	6,000	CY	\$600	\$3,600,000
Division 5				
Miscellaneous Metals	1	LS	\$20,000	\$20,000
Access Hatches	8	EA	\$6,000	\$48,000
Division 6				
RTP Grating	2,600	SF	\$50	\$130,000
RTP Railings	800	LF	\$100	\$80,000
RTP Ladders	1	LS	\$15,000	\$15,000
Division 10				
Identification, Stenciling, and Tagging Systems	1	LS	\$10,000	\$10,000
Division 11				
Equipment: Submersible Pump	4	EA	\$30,000	\$120,000
Equipment: Sump Pump	2	EA	\$12,000	\$24,000
48"x 48" Sluice Gate - Handwheel Operator	3	EA	\$35,000	\$105,000
Flush Gates w/ Operators	12	EA	\$40,000	\$480,000
Division 15				
Miscellaneous Pump Piping and Valves	1	LS	\$50,000	\$50,000
Breaktank, Pumps, and Other NPW Equipment	1	LS	\$25,000	\$25,000
Washdown Piping	1	LS	\$25,000	\$25,000
Washdown Equipment: Hoses and Water Cannons	1	LS	\$20,000	\$20,000
Utilidor HVAC Equipment	1	LS	\$40,000	\$40,000
SUBTOTAL				\$16,392,500
Division 16 & 17				
Electrical, Lighting and Controls @		10%		\$1,639,000
SUBTOTAL				\$18,031,500
Contingency @		25%		\$4,508,000
SUBTOTAL				\$22,539,500
Mobilization @		5.0%		\$1,127,000
Estimated Direct Construction Cost				\$23,666,500
Sales Tax @		8.6%		\$2,035,000
Total Estimated Construction Cost				\$25,702,000

King County CSI Project
North Creek Storage Facility - Construction Cost Estimate
Alternative B - 6 Million Gallon Piped Storage

	Quantity	Units	Unit Cost	Total Cost
Division 2				
Excavation	140,000	CY	\$15	\$2,100,000
Backfill	63,600	CY	\$15	\$954,000
Soil Erosion and Sediment Control	1	LS	\$20,000	\$20,000
Shoring	75,000	SF	\$40	\$3,000,000
Install Dewatering System	1	LS	\$150,000	\$150,000
Dewatering	18	MN	\$30,000	\$540,000
10'x16' Box Culvert	5,020	LF	\$1,500	\$7,530,000
36" RCP	520	LF	\$300	\$156,000
72" Manholes	4	EA	\$8,000	\$32,000
Division 3				
Concrete: Slabs on Grade	3,000	CY	\$300	\$900,000
Concrete: Walls	3,000	CY	\$550	\$1,650,000
Concrete: Suspended Slabs	1,400	CY	\$600	\$840,000
Division 5				
Miscellaneous Metals	1	LS	\$20,000	\$20,000
Access Hatches	8	EA	\$6,000	\$48,000
Division 6				
RTP Grating	2,600	SF	\$50	\$130,000
RTP Railings	800	LF	\$100	\$80,000
RTP Ladders	30	LS	\$1,500	\$45,000
Division 10				
Identification, Stenciling, and Tagging Systems	1	LS	\$10,000	\$10,000
Division 11				
Equipment: Submersible Pump	4	EA	\$30,000	\$120,000
Equipment: Sump Pump	2	EA	\$12,000	\$24,000
48"x 48" Sluice Gate - Handwheel Operator	14	EA	\$35,000	\$490,000
Flush Gates w/ Operators	15	EA	\$40,000	\$600,000
Division 15				
Miscellaneous Pump Piping and Valves	1	LS	\$50,000	\$50,000
Breaktank, Pumps, and Other NPW Equipment	1	LS	\$25,000	\$25,000
Washdown Piping	1	LS	\$25,000	\$25,000
Washdown Equipment: Hoses and Water Cannons	1	LS	\$20,000	\$20,000
Utilidor HVAC Equipment	1	LS	\$40,000	\$40,000
SUBTOTAL				\$19,599,000
Division 16 & 17				
Electrical, Lighting and Controls @		10%		\$1,960,000
SUBTOTAL				\$21,559,000
Contingency @		25%		\$5,390,000
SUBTOTAL				\$26,949,000
Mobilization @		5.0%		\$1,347,000
Estimated Direct Construction Cost				\$28,296,000
Sales Tax @		8.6%		\$2,433,000
Total Estimated Construction Cost				\$30,729,000

King County CSI Project
North Creek Storage Facility - Construction Cost Estimate
Alternative A - 14 Million Gallon Basin

	Quantity	Units	Unit Cost	Total Cost
Division 2				
Excavation	191,000	CY	\$15	\$2,865,000
Backfill	48,000	CY	\$15	\$720,000
Soil Erosion and Sediment Control	1	LS	\$20,000	\$20,000
Shoring	106,000	SF	\$40	\$4,240,000
Install Dewatering System	1	LS	\$150,000	\$150,000
Dewatering	24	MN	\$30,000	\$720,000
Auger Cast Piles	800	EA	\$4,000	\$3,200,000
36" RCP	520	LF	\$300	\$156,000
72" Manholes	4	EA	\$8,000	\$32,000
Division 3				
Concrete: Slabs on Grade	11,500	CY	\$300	\$3,450,000
Concrete: Walls	12,000	CY	\$550	\$6,600,000
Concrete: Suspended Slabs	6,500	CY	\$600	\$3,900,000
Division 5				
Miscellaneous Metals	1	LS	\$20,000	\$20,000
Access Hatches	8	EA	\$6,000	\$48,000
Division 6				
RTP Grating	5,200	SF	\$50	\$260,000
RTP Railings	1,600	LF	\$100	\$160,000
RTP Ladders	1	LS	\$20,000	\$20,000
Division 10				
Identification, Stenciling, and Tagging Systems	1	LS	\$10,000	\$10,000
Division 11				
Equipment: Submersible Pump	4	EA	\$50,000	\$200,000
Equipment: Sump Pump	2	EA	\$15,000	\$30,000
48"x 48" Sluice Gate - Handwheel Operator	3	EA	\$40,000	\$120,000
Flush Gates w/ Operators	12	EA	\$40,000	\$480,000
Division 15				
Miscellaneous Pump Piping and Valves	1	LS	\$70,000	\$70,000
Breaktank, Pumps, and Other NPW Equipment	1	LS	\$25,000	\$25,000
Washdown Piping	1	LS	\$25,000	\$25,000
Washdown Equipment: Hoses and Water Cannons	1	LS	\$20,000	\$20,000
Utilidor HVAC Equipment	1	LS	\$50,000	\$50,000
SUBTOTAL				\$27,591,000
Division 16 & 17				
Electrical, Lighting and Controls @		10%		\$2,759,000
SUBTOTAL				\$30,350,000
Contingency @		25%		\$7,588,000
SUBTOTAL				\$37,938,000
Mobilization @		5.0%		\$1,897,000
Estimated Direct Construction Cost				\$39,835,000
Sales Tax @		8.6%		\$3,426,000
Total Estimated Construction Cost				\$43,261,000